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Specification
No. 165

DEPARTMENT OF COMMERCE

BUREAU OF STANDARDS

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UNITED STATES GOVERNMENT MASTER SPECIFICATION
FOR RED INK

FEDERAL SPECIFICATIONS BOARD SPECIFICATION No. 165

This specification was officially promulgated by the Federal Specifications Board on June 30, 1924, for the use of the Departments and Independent Establishments of the Government in the purchase of red ink.

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I. TYPE

This ink shall be of only one type.

II. MATERIAL AND WORKMANSHIP

Shall be as described under General Requirements.

III. GENERAL REQUIREMENTS

The ink shall not be inferior in any essential to one properly prepared according to the following formula: Dissolve 5.5 g of crocein scarlet 3B, Schultz No. 227, in 1,000 cc of distilled or rain water.

IV. DETAIL REQUIREMENTS

Shall be as required under General Requirements.

V. METHOD OF INSPECTION AND TESTS

1. METHOD OF TAKING SAMPLES

An original unopened bottle, bearing all of the manufacturer's marks, shall be sent to the testing laboratory when such bottle contains not less than 4 fluid ounces. When the ink is furnished in smaller bottles, enough of them to aggregate at least 4 fluid ounces shall be sent to the testing laboratory unopened and with all marks intact.

2. TESTS

The sample shall be tested in comparison with a standard ink made according to the above formula.

Streaks shall be made by allowing measured portions, of about 0.6 cc each, of the ink to flow freely across a sheet of white bond paper which is pinned to a board or clamped to a pane of glass and held at an inclination of 45°. For better comparison streaks of the standard ink, prepared according to the above formula, shall be made on the same sheet as those of the sample.

(a) When the streaks are dry the sheet shall be examined on the front and the reverse sides. The streaks of the sample shall have the same general form as those of the standard. They shall be as uniform in color when viewed from the front and the back and shall show no more evidence of striking through the paper.

(b) The paper shall be cut into inch-wide strips at right angles to the streaks. Some of the strips shall be kept away from light and fumes, and others used for making the following test, after the ink has been allowed to dry for one hour.

After exposure to direct sunlight for 48 hours, or at a distance of about 10 inches from an arc or ultra-violet light for 24 hours, the streaks of the sample shall show no more evidence of fading than those of the standard.

VI. PACKING AND MARKING

No requirements specified.

VII. ADDITIONAL INFORMATION

No requirements specified.

VIII. GENERAL SPECIFICATIONS

No requirements specified.

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